IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): Process A process for the production of 4,4'-diaminodicyclohexylmethane (4,4'-HMDA) by catalytic hydrogenation of a mixture of substances containing comprising 4,4'-diaminodiphenylmethane (4,4'-MDA) as the main component and its a mono-N-methyl derivative thereof as a secondary component with increased selectivity with regard to the hydrogenation of 4,4'-MDA in the presence of a heterogeneous hydrogenation catalyst at a temperature in the range of 50 to 220°C and a hydrogen pressure in the range of 1 to 30 MPa,

characterised in that wherein

the hydrogenation is terminated before a conversion of 4,4'-MDA to 4,4'-HMDA of 99% is achieved.

Claim 2 (Currently Amended): Process The process according to claim 1, characterised in that wherein

a crude MDA, eontaining comprising at least 70 wt.% 4,4'-diaminodiphenylmethane and 0.01 to 2 wt.% N-methyl-4,4'-diaminodiphenylmethane, is used as the <u>said</u> mixture of substances to be hydrogenated.

Claim 3 (Currently Amended): Process The process according to claim 2, characterised in that wherein

the <u>said</u> mixture of substances to be hydrogenated contains comprises 75 – 99 wt.% 4,4'-MDA, 1 – 11 wt.% 2,4'-MDA, less than 2 wt.% 2,2'-MDA and up to 1 wt.% N-methyl-4,4'-MDA.

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<u>1</u>,

Claim 4 (Currently Amended): Process The process according to elaims 1 to 3 claim

characterised in that wherein

the hydrogenation of 4,4'-diaminodiphenylmethane to 4,4'-diaminodicyclohexylmethane is terminated at a conversion in the range of 90% to 98.9%, particularly 95 to 98%.

Claim 5 (Currently Amended): Process The process according to elaims 1 to 4 claim 1, characterised in that wherein the hydrogenation is performed at a temperature in the range of 90 to 150°C and a pressure in the range of 5 to 15 MPa.

Claim 6 (Currently Amended): Process The process according to one of claims 1 to 5 claim 1, characterised in that wherein an Ru-supported catalyst with an Ru content of 0.5 to 10 wt.% is used.

Claim 7 (Currently Amended): Process The process according to one of claims 1 to 6 claim 6, characterised in that wherein an Ru-aluminium oxide or Ru-titanium dioxide supported catalyst is used as the Ru supported catalyst, the support having a BET surface area of preferably less than 70 m²/g.

Claim 8 (Currently Amended): Process The process according to one of claims 1 to 7

claim 1, characterised in that wherein the catalytic hydrogenation is performed in the presence of a solvent from the series of the ethers, particularly tetrahydrofuran.

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Claim 9 (Currently Amended): Process The process according to one of claims 1 to 9 claim 1, characterised in that wherein the catalytic hydrogenation is performed in a continuous operating method in a fixed bed reactor packed with an Ru supported catalyst, wherein the reactor is operated by a trickle-bed method.

Claim 10 (New): The process according to claim 8, wherein the catalytic hydrogenation is performed in a continuous operating method in a fixed bed reactor packed with an Ru supported catalyst, wherein the reactor is operated by a trickle-bed method.